

Effects of Dexamethasone and temperature on mRNA expression in an immortalised clone of human bone marrow stromal cells

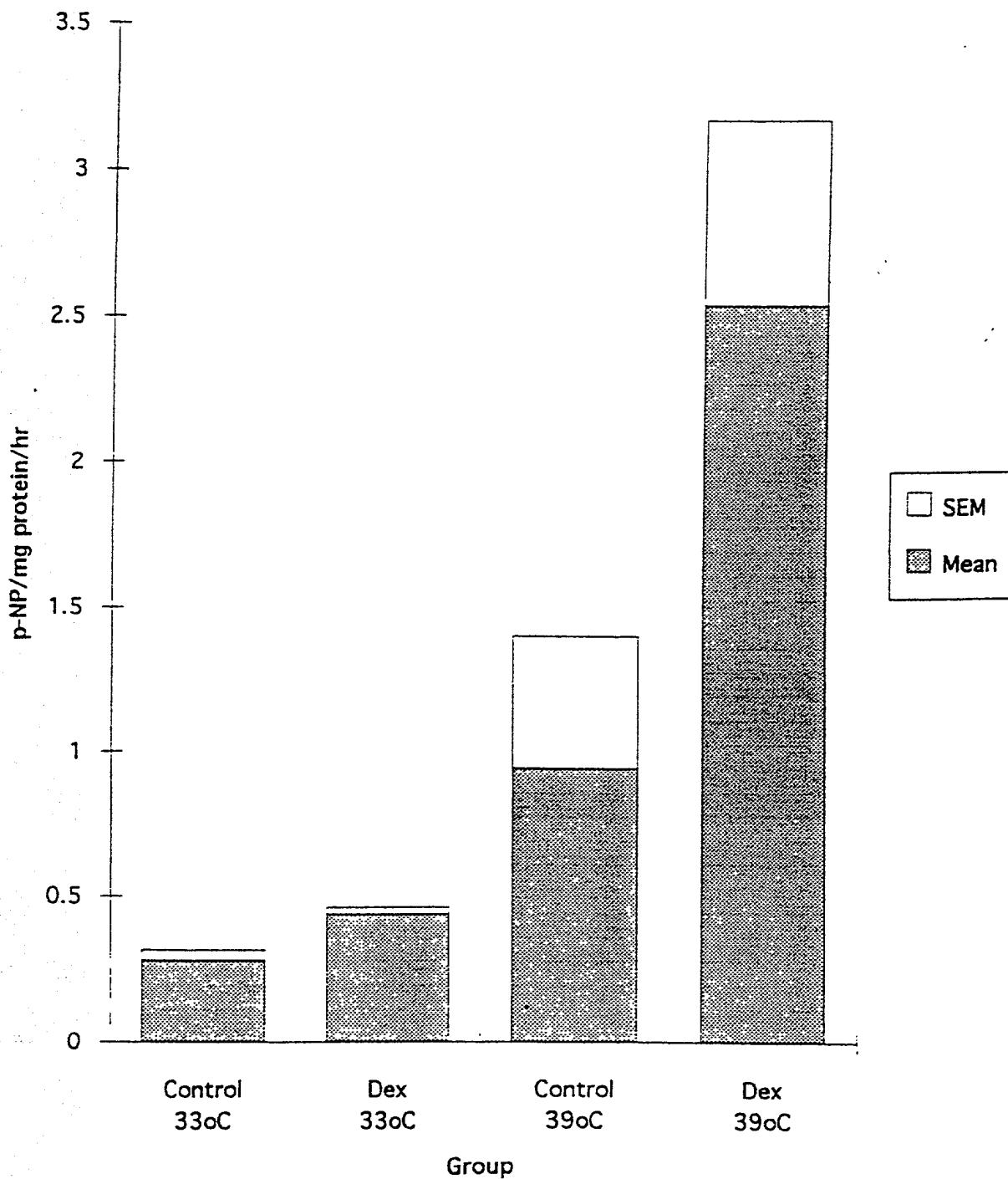
mRNA	Present at 33°C	Effects of Dex	Present at 39°C	Effects of Dex	Primary OB-like cells
IL-1 $\alpha$	YES	-	NO		NO
IL-1 $\beta$	YES	-	NO		NO
IL-3	NO		NO		NO
IL-4	NO		NO		NO
IL-6	YES	NE	YES	+	YES
IL-8	YES	NE	NO	+	YES
GM-CSF	YES	-	NO		NO
TNF $\alpha$	YES	+	NO		NO
Collagen I	YES	NE	YES	-	Not Done

+ = Increase in expression  
 - = Decrease in expression  
 NE = No effect

$5 \times 10^{-7}$  M Dexamethasone for 7 days

TABLE 1

**Effects of temperature and Dexamethasone ( $5 \times 10^{-7}M$ ) on alkaline phosphatase activity of HBMSC clone 7 cells**



**FIGURE 1**

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Von Kossa staining control 33°C micropic view

FIGURE 2

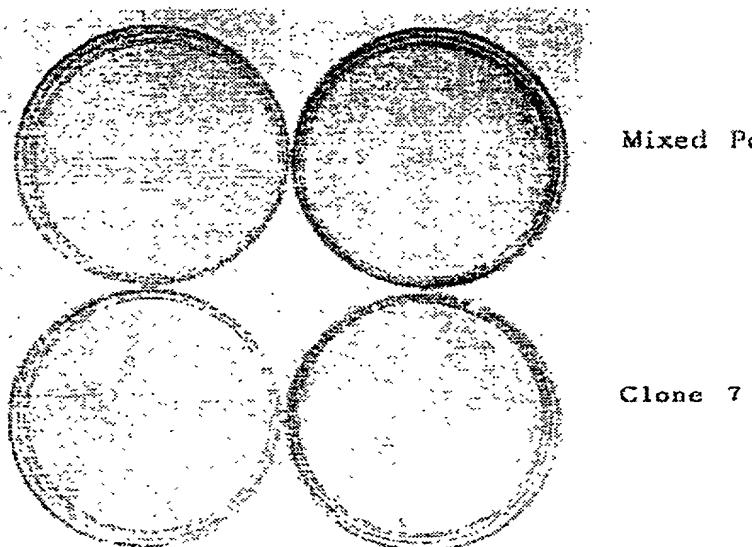
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Von Kossa staining microscopic view dexamethasone 39°C 5x10-7m

FIGURE 3

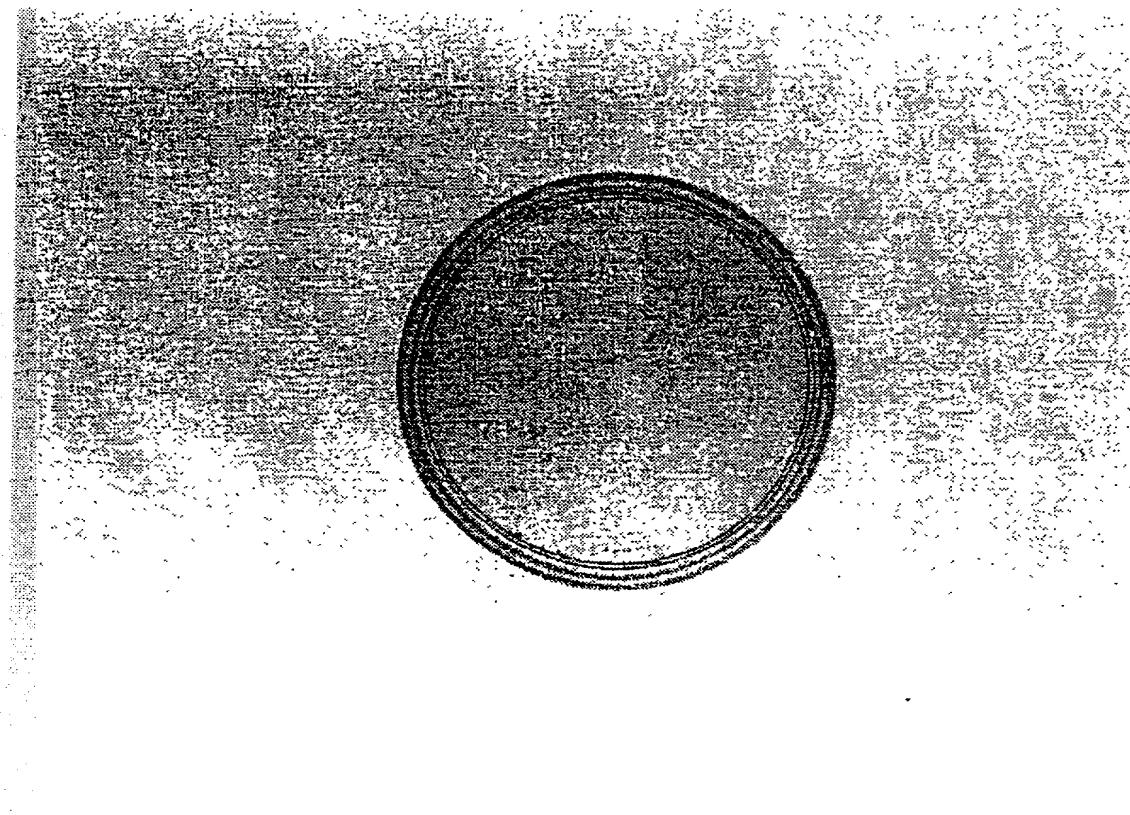
-Dex                    +Dex                    All at 39°C



Macroscopic view of Von Kossa staining

FIGURE 4

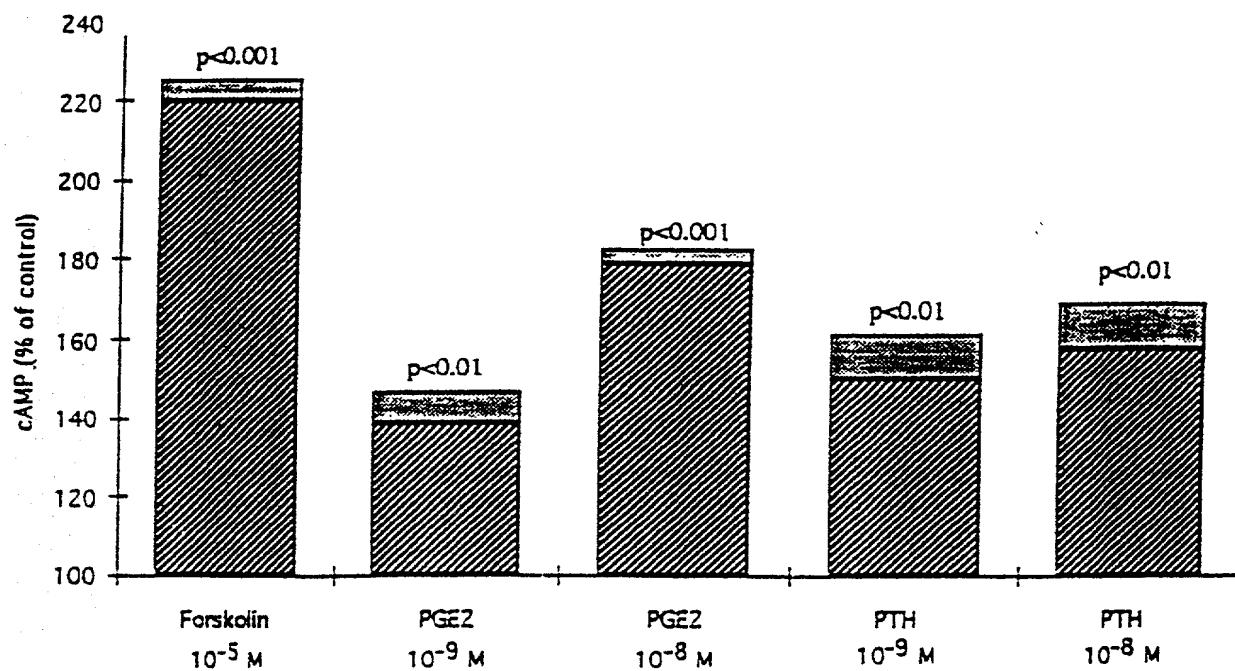
Clone 7      39°C      +Dex  $5 \times 10^{-7}$ m



Macroscopic view of Von Kossa staining for clone 7 and Dexamethasone  $5 \times 10^{-7}$ m at 39°C

FIGURE 5

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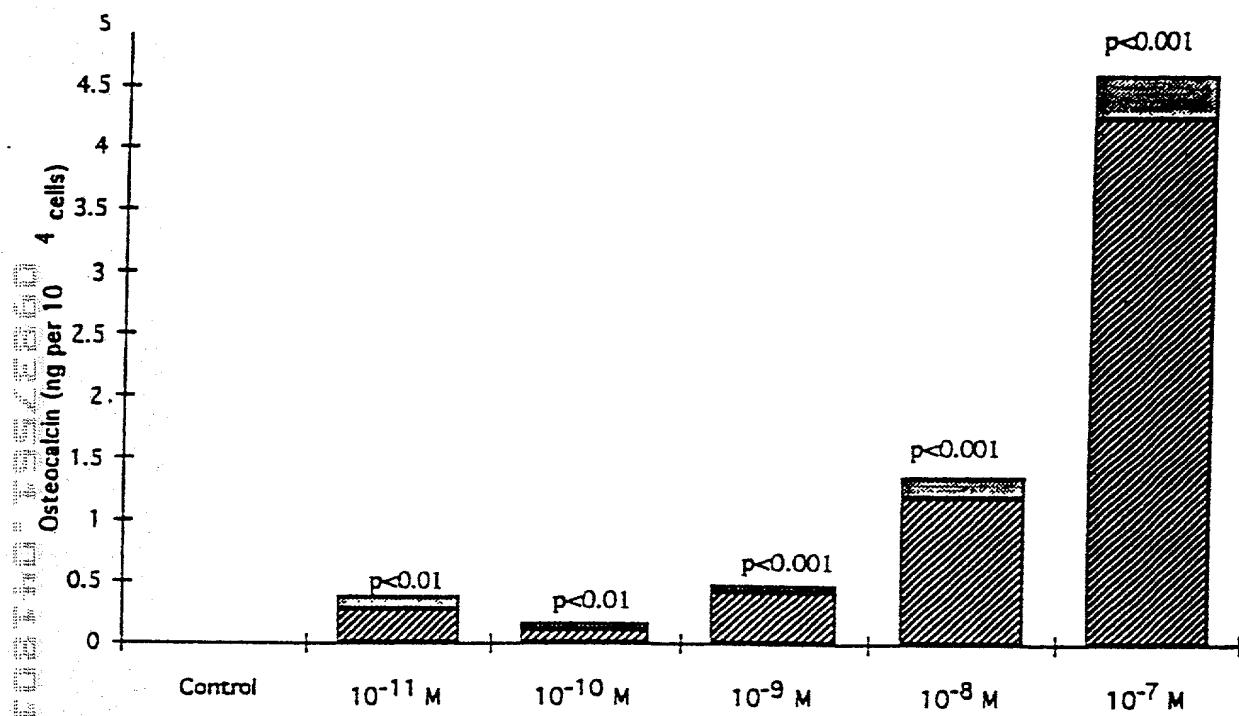


Error bars = SEM, n=4

All groups compared to control for statistical analysis (student's t-test).

FIGURE 6

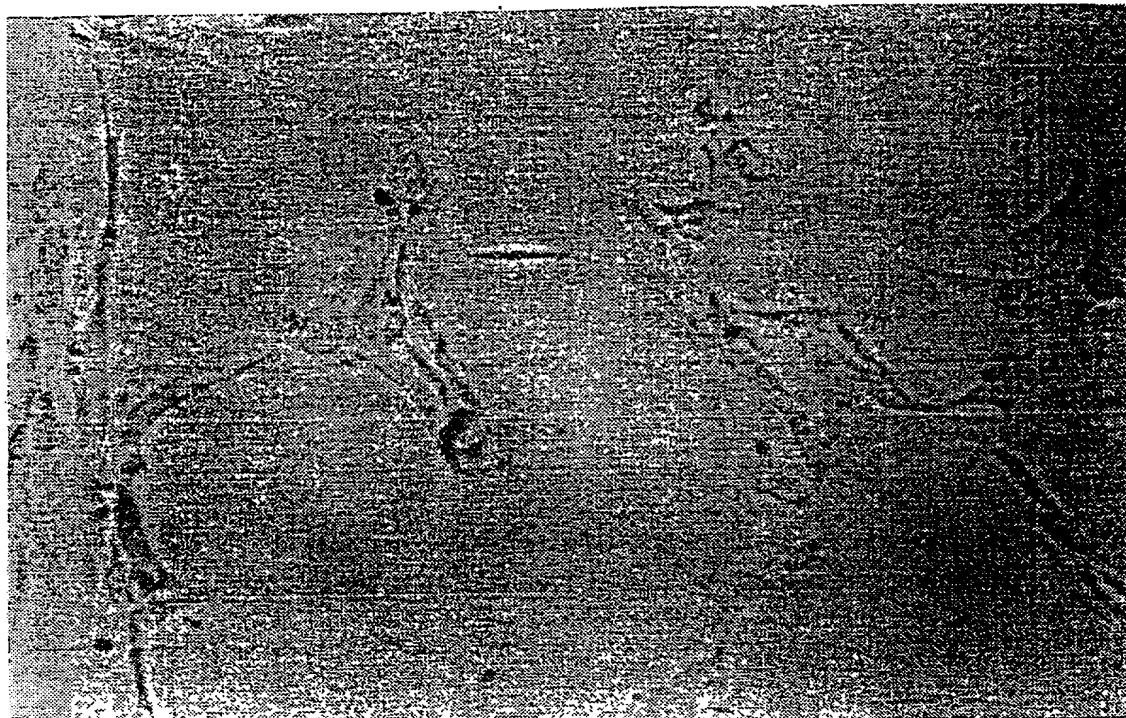
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Error bars = SEM, n=4  
All groups compared to control for statistical analysis (student's t-test).

FIGURE 7

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**FIGURE 8**

**SUBSTITUTE SHEET (RULE 26)**

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FIGURE 2

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FIGURE 10

**SUBSTITUTE SHEET (RULE 26)**

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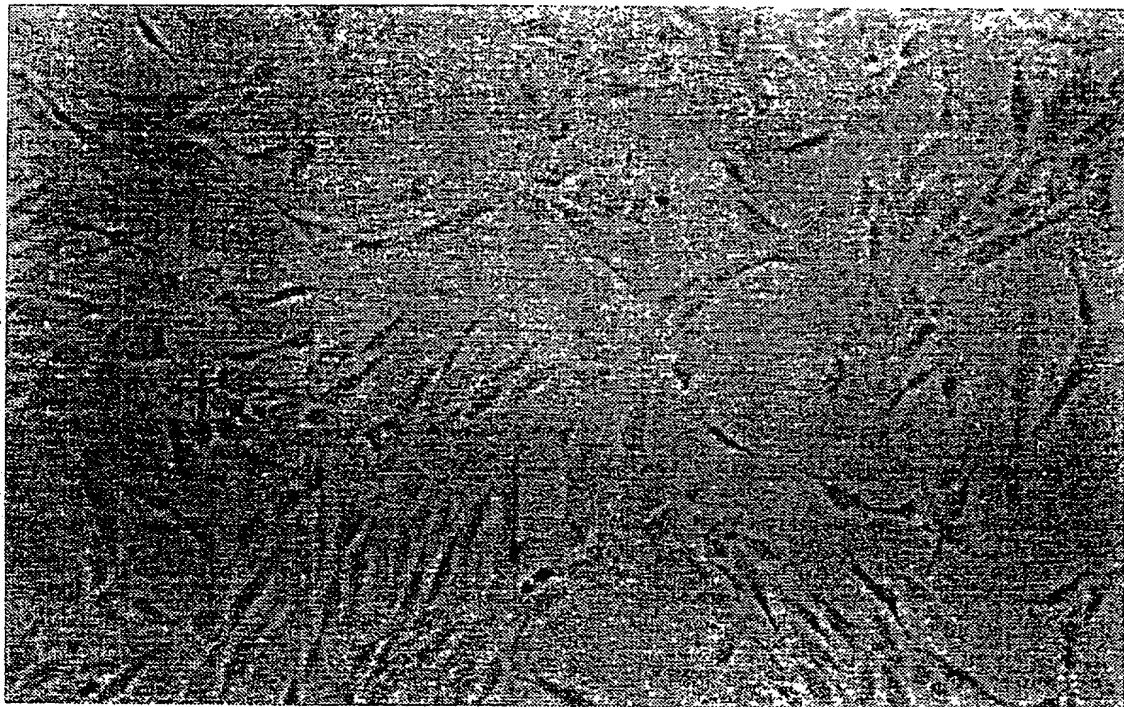
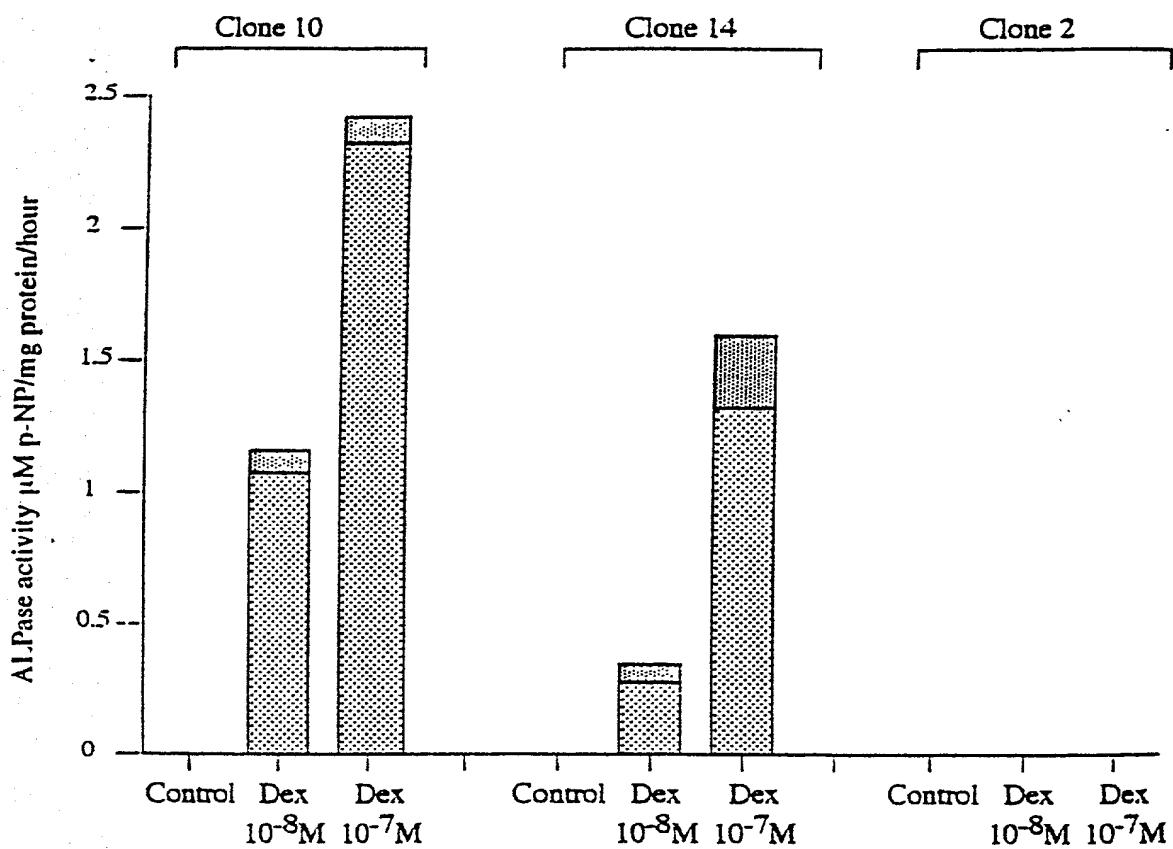
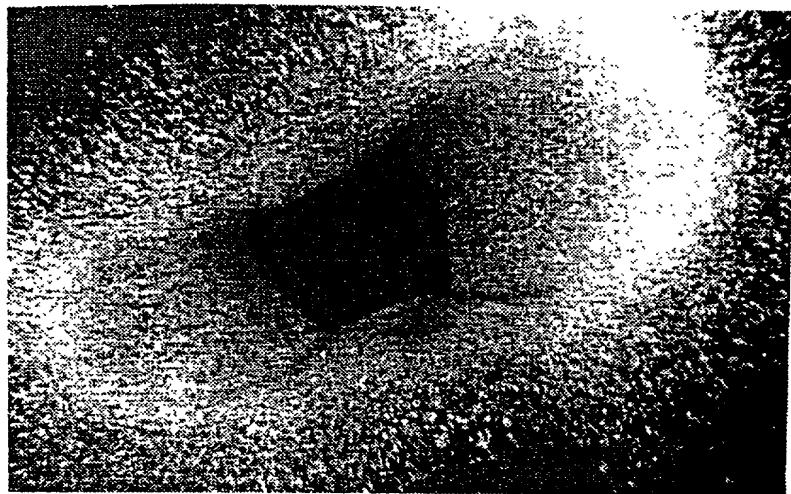


FIGURE 11

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**FIGURE 12**

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Femur derived from a human foetus 7-9 weeks of gestation and of approximately  $600\mu\text{m}$  in length.

**FIGURE 13**

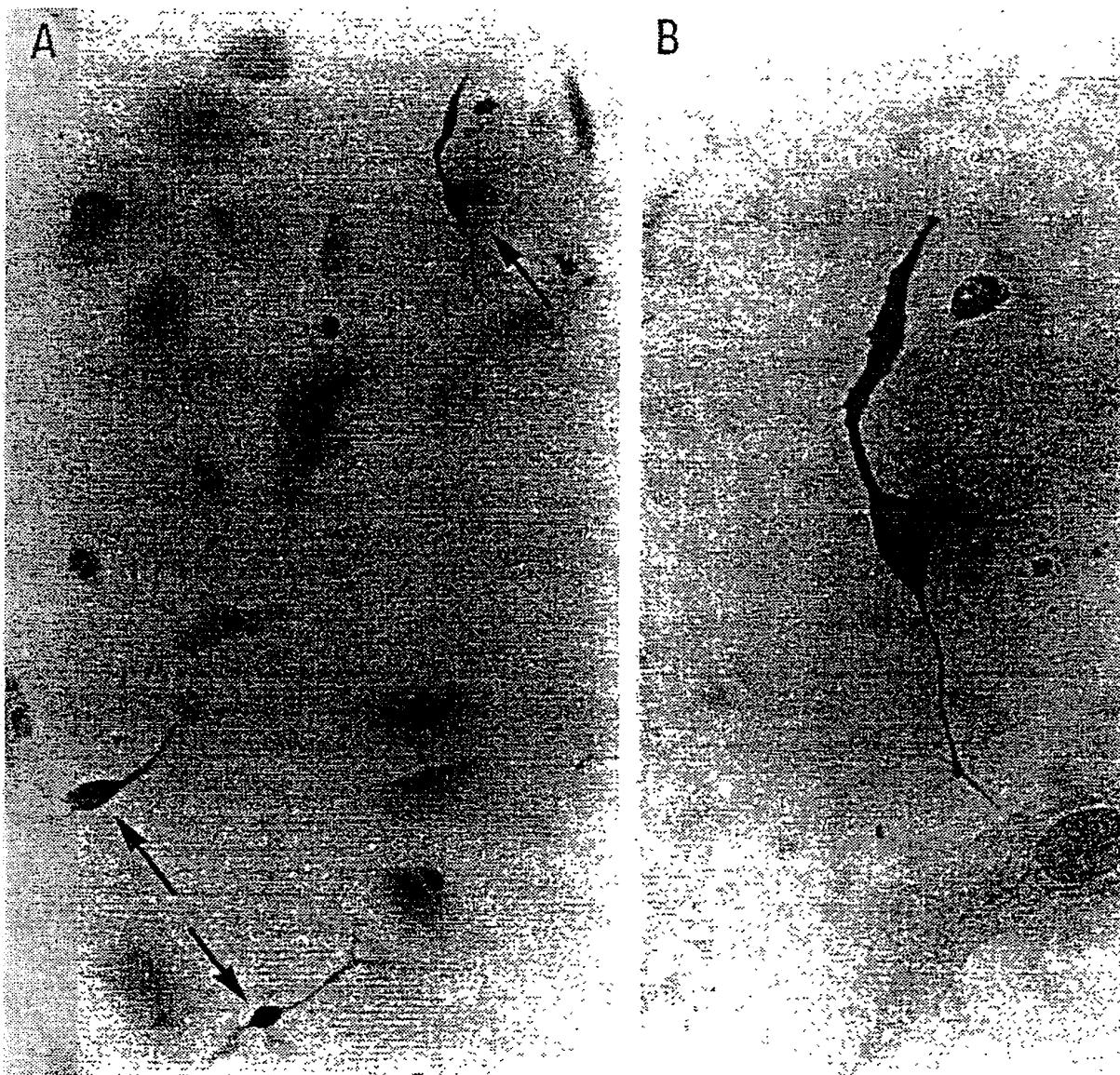


FIGURE 14

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FIGURE 14